

APPENDIX 5-J

FORMAT FOR AN EXPOSURE PREVENTION MANAGEMENT PLAN

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PART A EXPOSURE MONITORING and REPORTING PLAN

Cover Page

- _____ A. Provide DOH UST facility ID Number
- _____ B. Provide facility name and address. If available, provide latitude and longitude coordinates
- _____ C. Date report prepared
- _____ D. Name, address, and telephone number of person/company preparing report

Table of Contents

1. Introduction/Purpose

- _____ A. Brief statement of purpose

2. Background

A. Site Description

- _____ · A brief description of the site location and surrounding area
- _____ · The location of any populations that could be affected by the release

B. Vicinity map or sketch

- _____ · North arrow
- _____ · Streets
- _____ · Surface water bodies
- _____ · Water supply or injection wells

- _____ C. A U.S.G.S. 7.5 minute topographic quadrangle map indicating the location of the site

Note: All maps of the facility area should follow conventional mapping scenarios and should be easily read and interpreted. If this is not possible on one map, multiple maps are encouraged. If several maps are presented, all maps shall be in the same scale to aid in map comparisons. If geological maps are submitted, they should adhere to all normal geologic mapping conventions.

D. Site Plan(s) drawn to scale showing details of the following:

- _____ · The type and extent of onsite, ground surface cover (i.e. asphalt, concrete, soil, fill material, grass, etc.)
- _____ · Locations of all products and waste fluid tanks (existing and removed), associated piping, sampling points (identify sample depths), and dispenser pumps
- _____ · Adjacent streets, buildings and property lines
- _____ · North arrow
- _____ · Area of excavation
- _____ · Locations of any stockpiled soil
- _____ · Locations of field measurements
- _____ · Utility conduits
- _____ · Surface water drainage courses
- _____ · Sewerage
- _____ · Water supply or injection wells
- _____ · Catch basins, dry wells

E. Facility Information

- _____ · A brief history and description of ownership and operation of existing and previously removed USTs (include any photos taken)

- _____ · Name and telephone number of the person with overall responsibility and decision-making authority for carrying out the provisions of the plan

3. Natural Barriers and Engineered Controls

- _____ A. Identify and describe any natural barriers and engineered controls at and around the site which serve the purpose of effectively preventing exposures of population and environment to the residual contaminants
- _____ B. Specify the inspection protocol and schedule for ensuring that the natural barriers and engineered controls are still serving its exposure prevention purpose
- _____ C. Specify the recordkeeping procedures, interpretation of findings to activate and carry out specific corrective measures spelled out in the "Exposure Contingency Plan", and reporting criteria and protocol to the Department of Health.

4. Contaminant Detection and Monitoring System

- _____ A. Identify and describe the contaminant detection and monitoring system installed and implemented to effectively alert the owner and operator of the facility that the residual contaminants at the site is moving or changing in concentrations
- _____ B. Specify the recordkeeping procedures, interpretation of data to activate and carry out specific response measures spelled out in the "Exposure Contingency Plan", and reporting criteria and protocol to the Department of Health
- _____ C. Specify the sampling and monitoring protocol and schedule implemented for the contaminant detection and monitoring system

5. Preventive Maintenance

- _____ A. Specify and describe routine maintenance measures taken for natural barriers and engineered controls to ensure their effectiveness in preventing exposures. Also specify when these maintenance measures are performed.

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- _____ B. Specify and describe routine measures taken to maintain the contaminant detection and monitoring system to ensure good working order and usefulness of data procured

PART B EXPOSURE CONTINGENCY PLAN

NOTE: This Plan must be prepared as a "stand-alone", action-oriented response plan which can be effectively and readily activated and its action measures carried out without further, or with very minimal, instructions, guidance, or oversight.

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3. Action Measures for Correcting Breach of Natural Barriers and Failure of Engineered Controls

- _____ A. Specify and describe all possible types of breaches and failures which can occur
- _____ B. Specify and describe in detail the action measures which would be taken in response to each type or breach or failure.
- _____ C. Specify and describe the equipment, materials, and finances which would be needed for each action measure
- _____ D. Specify the types of personnel and workers, including consultants and contractors, needed to carry out each action measure effectively and efficiently.
- _____ E. Specify a timeline for completing each action measure.

4. Action Measures for Responding to Exacerbation of the Residual Contamination as Indicated by the Data from the Contaminant Detection and Monitoring System

- _____ A. Specify and describe all possible types of exacerbation scenarios which can occur
- _____ B. Specify and describe in detail the action measures which would be taken in response to each type of exacerbation scenario.
- _____ C. Specify and describe the equipment, materials, and finances which would be needed to implement each action measure

_____ D. Specify the types of personnel and workers, including consultants and contractors, needed to carry out each action measure effectively and efficiently.

_____ E. Specify a timeline for completing each action measure.

5. Action Measures for Responding to Exposure or Potential Exposure due to Construction, Renovation, or Demolition Activities

_____ A. Specify and describe all the types of construction, renovation, or demolition activities and identify the exposure pathways which can be created

_____ B. Specify notification protocol to the Department of Health prior to commencing construction, renovation, or demolition activities

_____ C. Specify and describe in detail the action measures or steps which would be taken to prevent or minimize exposures to workers, population, and environment

6. Measures to Take in Response to Exposure or Potential Exposure Created as a Result of Change in Land Use

_____ A. Specify and describe steps to be taken in the event receptor population is created due to change of land use.

_____ B. Specify and describe steps to be taken in the event receptor flora and fauna is created due to change of land use.

_____ C. Specify notification protocol to the Department of Health when land use changes for the site and surrounding areas

7. Measures to Take in Response to Conditions of High Water Table Levels and Flooding Events

_____ A. Specify and describe the steps to be taken to assess the site and surrounding areas for exposures as a result of high water table levels due to heavy rains.

_____ B. Specify and describe the steps to be taken to assess the site and surrounding areas for exposures as a result of flood events.

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- _____ C. Specify and describe in detail the action measures to be taken in response to discovery of exposures or potential exposures due to high water table levels or flooding events.
- _____ D. Specify notification protocol to the Department of Health when exposures or potential exposures are discovered due to high water table levels or flooding events

8. Recordkeeping

- _____ A. Specify and describe report writing and recordkeeping protocol each time the Exposure Contingency Plan is activated.